



State of Illinois

# ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

P. O. Box 19506, Springfield, IL 62794-9506

217/782-2113

## OPERATING PERMIT - NSPS SOURCES

### PERMITTEE

Wedron Silica  
Attn: Spencer Zitka  
Post Office Box 177  
Wedron, Illinois 60557

Application No.: 73031358

I.D. No.: 099804AAB

Applicants Designation:

Date Received: January 30, 1998

Type of Source: Aggregate Processing Plant

Date Issued: April 27, 1998

Expiration Date: April 27, 2003

Source Location: 50 Olive Street, Wedron

Permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of, one (1) gas-fired rotary dryer, two (2) sand baggers, two (2) sand coolers, two (2) cooler feeders, six (6) conveyors, one (1) cooler feed bin; a sand screening, conveying, storage area; a truck load out area, a rail loadout area, all controlled by eight (8) wet scrubbers; one (1) crusher controlled by water spray, one (1) unloading hopper controlled by water spray, one (1) double deck screen controlled by a water spray, Mill B conveyors, four (4) large bins, two (2) small bins, one (1) 20,000 gallon diesel storage tank, and two (2) 4,000 gallon gasoline storage tanks as described in the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

- 1a. Any crusher, grinding mill, screening operation, bucket elevator, belt conveyor, storage bin, or bagging operation at the plant that is new, i.e., which is fabricated or modified after August 31, 1983 is subject to New Source Performance Standards (NSPS), 40 CFR 60, Subparts A and OOO, unless it is part of a plant meeting one of the following exemptions:
    - i. Fixed sand and gravel plants and crushed stone plants with a cumulative rated capacity of all initial crushers of 250 tons/hour or less. (40 CFR 60.670(c)(1))
    - ii. Portable sand and gravel plant and crushed stone plants with a cumulative rated capacity of all initial crushers of 150 tons/hour or less. (40 CFR 60.670(c)(2))
- The Illinois EPA is administrating these standards in Illinois on behalf of the United States EPA under a delegation agreement.
- b. New equipment, as described above, shall comply with the following requirements:
    - i. Emissions of particulate matter from grinding mills, screens (except from truck dumping), bucket elevators, transfer points on belt conveyors, bagging operations, and storage bins, shall not exceed 10 percent opacity, (40 CFR 60.672(b) and (d)).
    - ii. Emissions of particulate matter from the crushers (except from truck dumping), shall not exceed 15 percent opacity, (40 CFR 60.672(c) and (d)).

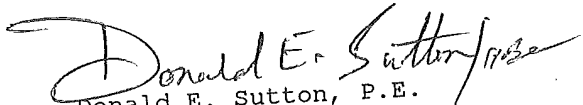
- iii. At all times the Permittee shall also maintain and operate this equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions.
- 2a. Operation of the sand/aggregate processing plant shall not exceed the following limits.  
  
Sand/Aggregate Processed: 250,000 tons/month and 2,000,000 tons/year.
- b. Compliance with these annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months.
- 3. For sources not controlled by a wet scrubber the moisture content of the aggregate as crushed shall be at least 1.5% by weight so as to reduce emissions of particulate matter.
  - a. The Permittee shall show compliance with this requirement as follows:
    - i. The moisture content of a representative sample of the aggregate shall be measured at least once per week using ASTM Procedures (C566-67) for total moisture content of material. Compliance with this requirement may be presumed if moisture content of aggregate as shipped is at least 1.5%.
- 4a. For those sources using a wet scrubber as control, a continuous monitoring system shall be installed, maintained, and operated in accordance with the provisions of 40 CFR 60.674 for:
  - i. Scrubber gas stream pressure loss (accurate to +/- 1 inch water gauge)
  - ii. Scrubber liquid flow rate (accurate to +/- 5 percent design flow rate).
- b. The Permittee shall maintain records of the scrubber operation, pursuant to 40 CFR 60.7(b).
- 5a. If the Permittee is relying on 3(a)(i) above to show compliance the Permittee shall maintain records of all moisture content tests performed, including date, time, individual performing test, location of sample e.g., prior to crushing or as shipped.  
  
If the Permittee is relying on 3(a)(ii) above to show compliance the Permittee shall maintain operating logs for the water spray equipment, including dates and times of usage, malfunctions (type date and measures taken to correct), water pressure, and dates when there was enough rain that the water spray equipment was not operated.
- b. The Permittee shall maintain weekly records of water consumption in the spray equipment, as determined by the meter required by Condition 3(a)(ii).

- c. The Permittee shall maintain records of the following items:
- i. Aggregate processed (tons/month and tons/year).
  - ii. Natural gas usage.
6. All records required by this permit shall be retained at the source for at least 3 years from the date of entry and shall be readily accessible to the Illinois EPA and USEPA for inspection and copying upon request.
7. The assembly of this plant at a new location will require a construction permit for the new location. This permit must be obtained prior to commencing construction at the new location.
8. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity that is visible by an observer looking generally toward the zenith (that is, looking at the sky directly overhead) from a point beyond the property line of the emission source, pursuant to 35 Ill. Adm. Code 212.301.

It should be noted that the gas fired heater drain building is exempt from permit requirements as per 35 IAC 201.146.

It should be noted that this permit has been revised to include operating permits 73031361, ✓75020046, ✓80010007, 83030053, ✓89100091, and 94080140.

If you have any questions on this permit, please call Don Hanko at 217/782-2113.

  
Donald E. Sutton, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

DES:DMH:psj

cc: Region 2

Attachment A - Emissions Summary

Particulate matter emissions from the sand/aggregate processing plant:

<u>Item of Equipment</u>	<u>Annual Throughput (T/Yr)</u>	<u>PM<sub>10</sub> Emission Factor (Lb/T)</u>	<u>Annual Emissions</u>	
			<u>PM<sub>10</sub> (T/Yr)</u>	<u>TSP (T/Yr)</u>
0025 Unloading Hopper	2,000,000	0.000016	0.02	0.04
0024 Double Deck Screen	2,000,000	0.00084	0.84	1.73
0023 Crusher	2,000,000	0.002	2.40	5.07
0026 Conveyor/Slurry Bin	2,000,000	0.000048	0.05	0.10
0026 Conveyor #9	1,872,000	0.000028	0.03	0.06
0027 2 Cooling Transfer Pts (#1 & #2)	1,872,000	0.000028	0.03	0.06
0028 Cooler Feed Bin	1,872,000	0.000028	0.03	0.06
0029 2 Cooler Feeders	1,872,000	0.000028	0.03	0.06
0030 2 Sand Baggers	187,200	0.000028	0.01	0.01
0032 2 Sand Coolers	1,872,000	0.000028	1.80	3.80
0040 3 Belt Conveyors (#25, #26, #27)	1,872,000	0.000028	1.61	3.39
0041 Belt Conveyor (#10)	1,872,000	0.0014	1.31	2.77
0036 Sand, Screening, Conveying, Storage	1,872,000	0.00084	0.79	1.66
0041 Truck Loadouts (LS-01, LS-02)	936,000	0.0014	0.66	1.39
0033 Rail Loadout	1,497,600	0.0014	1.05	2.22
0032 Mill B Conveyors	187,200	0.0014	0.14	0.28
4 Large Bins	149,760	0.0014	0.11	0.23
0035 2 Small Bins	37,440	0.0014	0.03	0.06
Total			10.94	22.99

This table is based on the actual emissions determined from maximum production, standard emission factors, and information provided in the permit application.

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Attachment B

<u>Item of Equipment</u>	<u>Annual Throughput (T/Yr)</u>	<u>Nitrogen Dioxide (T\Yr)</u>	<u>Carbon Monoxide (T/Yr)</u>
Gas Fired Rotary Dryer 0022	1,872,000	25.2	6.3

These limits are based on information in the permit application.

DES:DMH:psj



STATE OF ILLINOIS  
ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF AIR POLLUTION CONTROL  
2200 CHURCHILL ROAD  
SPRINGFIELD, ILLINOIS 62706

STANDARD CONDITIONS  
FOR  
OPERATING PERMITS

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) grants the Environmental Protection Agency authority to impose conditions on permits which it issues.

The following conditions are applicable unless superseded by special permit condition(s).

1. The issuance of this permit does not release the permittee from compliance with state and federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or with applicable local laws, ordinances and regulations.
2. The Agency has issued this permit based upon the information submitted by the permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation under 35 Ill. Adm. Code 201.207.
3.
  - a. The permittee shall not authorize, cause, direct or allow any modification, as defined in 35 Ill. Adm. Code 201.102, of equipment, operations or practices which are reflected in the permit application as submitted unless a new application or request for revision of the existing permit is filed with the Agency and unless a new permit or revision of the existing permit(s) is issued for such modification.
  - b. This permit only covers emission sources and control equipment while physically present at the indicated plant location(s). Unless the permit specifically provides for equipment relocation, this permit is void for an item of equipment on the day it is removed from the permitted location(s) or if all equipment is removed, notwithstanding the expiration date specified on the permit.
4. The permittee shall allow any duly authorized agent of the Agency, upon the presentation of credentials, at reasonable times:
  - a. to enter the permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,
  - b. to have access to and to copy any records required to be kept under the terms and conditions of this permit,
  - c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,
  - d. to obtain and remove samples of any discharge or emission of pollutants, and
  - e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring or recording any activity, discharge or emission authorized by this permit.
5. The issuance of this permit:
  - a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are located,
  - b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the facilities,

- c. does not take into consideration or attest to the structural stability of any unit or part of the project, and
  - d. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.
6. The facilities covered by this permit shall be operated in such a manner that the disposal of air contaminants collected by the equipment shall not cause a violation of the Environmental Protection Act or regulations promulgated thereunder.
7. The permittee shall maintain all equipment covered under this permit in such a manner that the performance of such equipment shall not cause a violation of the Environmental Protection Act or regulations promulgated thereunder.
8. The permittee shall maintain a maintenance record on the premises for each item of air pollution control equipment. This record shall be made available to any agent of the Environmental Protection Agency at any time during normal working hours and/or operating hours. As a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.
9. No person shall cause or allow continued operation during malfunction, breakdown or startup of any emission source or related air pollution control equipment if such operation would cause a violation of an applicable emission standard or permit limitation. Should a malfunction, breakdown or startup occur which results in emissions in excess of any applicable standard or permit limitation, the permittee shall:
- a. immediately report the incident to the Agency's Regional Field Operations Section Office by telephone, telegraph, or other method as constitutes the fastest available alternative, and shall comply with all reasonable directives of the Agency with respect to the incident;
  - b. maintain the following records for a period of no less than two (2) years:
    - i. date and duration of malfunction, breakdown or startup,
    - ii. full and detailed explanation of the cause,
    - iii. contaminants emitted and an estimate of quantity of emissions,
    - iv. measures taken to minimize the amount of emissions during the malfunction, breakdown or startup, and
    - v. measures taken to reduce future occurrences and frequency of incidents.
10. If the permit application contains a compliance program and project completion schedule, the permittee shall submit a project completion status report within thirty (30) days of any date specified in the compliance program and project completion schedule or at six month intervals, whichever is more frequent.
11. The Permittee shall submit an Annual Emission Report as required by 35 Ill. Adm. Code. 201.302 and 35 Ill. Adm. code Part 254.

# Directory Environmental Protection Agency Bureau of Air

September 1, 1992

For assistance in preparing a permit application,  
contact the Permit Section:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Permit Section  
2200 Churchill Road  
Springfield, Illinois 62706  
217/782-2113

Or contact a regional office of the Field Operations Section. The regional offices and their areas of responsibility are shown on the map. The addresses and telephone numbers of the regional offices are as follows:

Illinois EPA  
**Region 1**  
Intercontinental Center  
1701 South 1st Avenue  
Maywood, Illinois 60153  
708/531-5900

Illinois EPA  
**Region 2**  
5415 North University  
Peoria, Illinois 61614  
309/693-5461

Illinois EPA  
**Region 3**  
2009 Mall Street  
Collinsville, Illinois 62234  
618/346-5120

